

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-2. (Cancelled)

3. (Currently Amended) ~~The motion picture data processing device according to Claim 2~~ A motion picture data processing device, comprising:

inputting means for inputting motion picture data that has been subjected to compression including frequency transformation and quantization;

watermark embedding means for generating and embedding a digital watermark pattern of a visible watermark corresponding to a motion compensated prediction in said motion picture data input by said inputting means, wherein said watermark embedding means comprises (i) intra-block processing means for embedding said digital watermark pattern into blocks that have pixel values relevant to all pixels as information among screens constituting said motion picture data, and (ii) motion correction means for embedding a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors in a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data, wherein said motion correction means removes the embedded digital watermark pattern, generates an image of said cancellation pattern, subjects [[it]] the image of said cancellation pattern to frequency transformation, and embeds [[it]] the frequency transformed image in a screen being processed; and

outputting means for outputting motion picture data with the watermark embedded therein by said watermark embedding means.

4. (Currently Amended) ~~The motion picture data processing device according to Claim 2~~ A motion picture data processing device, comprising:

inputting means for inputting motion picture data that has been subjected to compression including frequency transformation and quantization;

watermark embedding means for generating and embedding a digital watermark pattern of a visible watermark corresponding to a motion compensated prediction in said motion picture data input by said inputting means, wherein said watermark embedding means comprises (i) intra-block processing means for embedding said digital watermark pattern into blocks that have pixel values relevant to all pixels as information among screens constituting said motion picture data, and (ii) motion correction means for

embedding a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors in a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data, wherein said motion correction means prepares in advance pattern tables for possible cancellation patterns that have been frequency-converted, and selects a given pattern table from the pattern tables and embeds ~~an appropriate~~ the given pattern table in a screen being processed; and

outputting means for outputting motion picture data with the watermark embedded therein by said watermark embedding means.

5-6. (Cancelled)

7. (Currently Amended) ~~The motion picture data processing device according to Claim 6~~ A motion picture data processing device, comprising:

dequantization means for dequantizing motion picture data that has been subjected to compression including discrete cosine transform (DCT) and quantization;

watermark embedding means for embedding a digital watermark pattern of a watermark converted into a DCT coefficient in said motion picture data dequantized by said dequantization means, wherein said watermark embedding means comprises (i) intra-block processing means for converting the image of said digital watermark pattern to DCT coefficients and embedding the DCT coefficients into screens that have pixel values relevant to all pixels as information among screens constituting said motion picture data, and (ii) motion correction means for embedding a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors in a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data, wherein said motion correction means removes the embedded digital watermark pattern, generates an image of said ~~digital watermark~~ cancellation pattern based on said motion vectors, converts ~~[[it]]~~ the image into DCT coefficients, and embeds ~~[[them]]~~ the DCT coefficients into a screen being processed; and

quantization means for quantizing motion picture data with the watermark embedded therein by said watermark embedding means.

8. (Currently Amended) ~~The motion picture data processing device according to Claim 6~~ A motion picture data processing device, comprising:

dequantization means for dequantizing motion picture data that has been subjected to compression including discrete cosine transform (DCT) and quantization;

watermark embedding means for embedding a pattern of a watermark converted into a DCT coefficient in said motion picture data dequantized by said dequantization means, wherein said watermark embedding means comprises (i) intra-block processing means for converting the image of said digital watermark pattern to DCT coefficients and embedding them into screens that have pixel values relevant to all pixels as information among screens constituting said motion picture data, and (ii) motion correction means for embedding a said digital watermark pattern for which the effect of motion vectors are canceled in a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data, wherein said motion correction means prepares in advance pattern tables that show DCT coefficients produced by converting images of possible said digital watermark patterns, and selects a given pattern table from the pattern tables and embeds ~~an appropriate~~ the given pattern table in a screen being processed; and

quantization means for quantizing motion picture data with the watermark embedded therein by said watermark embedding means.

9-10. (Cancelled)

11. (Currently Amended) A motion picture processing method for embedding a watermark in motion picture data that has been subjected to compression including frequency transformation and quantization by using a computer, comprising:

a first step of inputting motion picture data that has been subjected to said compression and storing the data in predetermined storing means;

a second step of embedding a digital watermark pattern of a visible watermark corresponding to a motion compensated prediction in said motion picture data stored in said predetermined storing means and storing the data in said predetermined storing means, wherein said second step comprises the steps of (i) generating an image of a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors for a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data and storing the image in said predetermined storage means, (ii) removing the embedded digital watermark pattern, and (iii) subjecting said image stored in said predetermined storage means to frequency transformation and embedding the frequency transformed image in a screen being processed; and

a third step of outputting said motion picture data with [[a]] the watermark embedded therein and stored in said predetermined storage means.

12. (Cancelled)

13. (Currently Amended) ~~The motion picture data processing method according to Claim 11~~ A motion picture processing method for embedding a watermark in motion picture data that has been subjected to compression including frequency transformation and quantization by using a computer, comprising:

a first step of inputting motion picture data that has been subjected to said compression and storing the data in predetermined storing means;

a second step of embedding a digital watermark pattern of a visible watermark corresponding to a motion compensated prediction in said motion picture data stored in said predetermined storing means and storing the data in said predetermined storing means, wherein said second step comprises the steps of: (i) determining whether it is necessary to embed a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors ~~[[into]]~~ in a screen that is generated through motion compensated prediction that is based on motion vectors among screens constituting said motion picture data on the basis of motion vectors for that screen; and (ii) if it is determined that it is necessary to embed said cancellation pattern, selecting ~~an appropriate~~ a given pattern table from a group of pattern tables that store frequency-converted values of possible ~~[[said]]~~ cancellation patterns as stored in predetermined storing means and embedding ~~[[it]]~~ the given pattern table into a screen being processed; and

a third step of outputting said motion picture data with the watermark embedded therein and stored in said predetermined storage means.

14-16. (Cancelled)

17. (Currently Amended) ~~The program product according to Claim 16~~ A program product, stored on a recording medium, for embedding a watermark in motion picture data that has been subjected to compression including frequency transformation and quantization by controlling a computer, wherein said program product causes said computer to perform:

a first process for inputting motion picture data that has been subjected to said compression and storing the data in predetermined storing means;

a second process for embedding a digital watermark pattern of a visible watermark corresponding to a motion compensated prediction in said motion picture data stored in said predetermined storing means and storing the data in said predetermined storing means, wherein said second process comprises the processes of embedding said digital watermark pattern into screens that have pixel values relevant to all pixels as information among screens constituting said motion picture data, and embedding a

cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors into a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data, wherein said process of embedding a cancellation pattern comprises the processes of: (i) generating an image of a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors for a screen that is generated through motion compensated prediction based on motion vectors among screen constituting said motion picture data and storing it in said predetermined storage means; (ii) removing the embedded digital watermark pattern and (iii) subjecting said image stored in said predetermined storage means to frequency transformation and embedding [[it]] the frequency transformed image in a screen being processed; and

a third process for quantizing said motion picture data with the watermark embedded therein and stored in said predetermined storing means.

18. (Currently Amended) ~~The program product according to Claim 16~~ A program product, stored on a recording medium, for embedding a watermark in motion picture data that has been subjected to compression including frequency transformation and quantization by controlling a computer, wherein said program product causes said computer to perform:

a first process for inputting motion picture data that has been subjected to said compression and storing the data in predetermined storing means;

a second process for embedding a digital watermark pattern of a visible watermark corresponding to a motion compensated prediction in said motion picture data stored in said predetermined storing means and storing the data in said predetermined storing means, wherein said second process comprises the processes of embedding said digital watermark pattern into screens that have pixel values relevant to all pixels as information among screens constituting said motion picture data, and embedding a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors into a screen that is generated through motion compensated prediction based on motion vectors among screens constituting said motion picture data, wherein said process of embedding a cancellation pattern comprises the processes of: (i) determining whether it is necessary to embed a cancellation pattern for canceling the movement of said digital watermark pattern due to motion vectors into a screen that is generated through motion compensated prediction that is based on motion vectors among screens constituting said motion picture data on the basis of motion vectors for that screen; and (ii) if it is determined that it is necessary to embed said cancellation pattern, selecting ~~an appropriate a given~~ a given pattern table from a group of pattern tables that store frequency-converted values of possible [[said]] cancellation patterns as stored in said predetermined storing means and embedding [[it]] the given pattern table into a screen being processed; and

a third process for quantizing said motion picture data with the watermark embedded therein and stored in said predetermined storing means.

19. (Cancelled)